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25 July 1957

SAPC 18467
COPY 1 OF 3

PROPOSAL FOR FIELD ENGINEERING SERVICES

CONTRACT [REDACTED]

25X1A

For the Period of 1 July 1957 to 30 December 1957

EXHIBIT A

Item 1. Engineering Supervision - All Systems - Requirement 1, Requirement 2, and Requirement 3.

a. Engineering supervision for the field service contract is required on a full-time basis. This involves the hiring and training of field personnel and establishing training programs and training services for customer representatives. Liaison among contractors and with the customer will be performed to coordinate continuing research and development effort and its application to the field units. Surveys for facilities, FAK, SLOE, and 360-Day Support will be required when new facilities and operational sites are established. Coordination is required for the continued support of all systems. Information obtained in the lab and received from the field must be disseminated and coordinated to maintain the most efficient utilization of personnel and equipment.

b. The field support for Requirement 1, Requirement 2, and Requirement 3 utilizes the services of some twenty to thirty skilled and specially trained personnel. Direct and close supervision of personnel and equipment is mandatory to prevent both overlapping efforts and gaps in efforts.

c. Any major deviations from this proposal or any new tasks properly falling under the terms of Exhibits A, B, C or D must be dealt with promptly by the supervisory staff and immediately brought to the attention of all concerned.

d. Some travel will be required. Our past experience indicates that it is essential to have technical representation during the planning of new operational sites and during the advance party surveys. Without this representation, the space and facility requirements are not met. When no one is present to work out compromise solutions, costly delays in operating schedules result. It is proposed that one trip out of the Z.I. may be required during this period in the event the duties of technical representatives will preclude their attendance.

e. Man Months, Engineering:

Man Months

6

f. Estimated Travel:

U. S.	3 Trips
Foreign	1 Trip

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Item 2. Non-Resident Field Engineering and Training, Requirement 1. ^{#14}

a. Field engineering services will be required for the support of the continuing R & D program for System 1, System 3, System 4, and the Data Reduction Equipment. Field test will be performed to check new modifications and new models of equipment. Some equipments will require field testing before delivery. Suggestions and comments from field units and from the customer will require evaluation under field conditions. Miscellaneous purchased parts, fabricated parts, and certain specialized pieces of test apparatus will be required to perform these evaluations. New aircraft configurations and new locations of existing equipment are required when new equipment is added to the program. Each change requires additional field engineering to check for mutual electrical interference, satisfactory physical location and satisfactory environmental performance in the new locations. This company has been charged with the responsibility of insuring that all aircraft configurations are compatible from an electrical or electronic interference standpoint.

b. A few examples of programs requiring this type of support may be listed from the work of the past few months.

- (1) Addition of APQ-56
- (2) Addition of RADAN
- (3) Relocation of RADAN
- (4) Relocation of System 3
- (5) New type of System 3 Antenna
- (6) System 1 Field Modification #2
- (7) Three new models of System 1 Antenna
- (8) Addition of System 4
- (9) Addition of Rambo Amplifiers
- (10) Addition of System 1 Voice Filter
- (11) Change in Method of Keying System 1 1-kc Tone

c. Requirement 1 engineers and technicians to perform resident field engineering services in support of System 4 will receive in-plant training. This estimate will include the time charged prior to the receipt of security clearance.

d. Technicians engaged in the non-resident field support programs are not salary exempt employees. It is virtually impossible to schedule a field support program to eliminate overtime or odd hours. The time schedules are largely determined by the availability of equipment, test vehicles, logistics, and other supporting functions and personnel. This overtime will be held to a minimum, but it must be recognized that part of the technician time will be paid at a premium rate. This does not directly affect the contract since all premium pay is charged to overhead.

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e. Man Months, Engineering:

	<u>Man Months</u>
Field Support	5
Instructors	3
Training	8
Total	<u>16</u>

f. Man Months, Technician:

	<u>Man Months</u>
Field Support	5
Training	9
Total	<u>14</u>

g. Miscellaneous Spare Parts
and Test Apparatus

\$1,000.00

Item 3. Non-Resident Field Engineering, Requirement 2.

a. Two engineers will be working full time with portable System 2 and System 3 until they receive an overseas assignment. From time to time they will render assistance in operating and maintaining System 2 fixed equipment.

b. One engineer will be required part time to provide assistance in operating and maintaining two System 2 fixed stations. One technician will be required at the factory full time to provide miscellaneous support of all field units and fixed stations. This support is similar to that described in the non-resident Requirement 3 exhibit. In addition, considerable time is consumed in locating and selecting parts required by field units.

c. Part of the technician time will be paid at a premium rate.

d. Man Months, Engineering:

<u>Man Months</u>
10

e. Man Months, Technician:

<u>Man Months</u>
4

f. Estimated Travel:

U. S. 6 Trips

g. Miscellaneous Spare Parts
and Test Apparatus

\$3,000.00

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Item 4. Non-Resident Field Engineering and Training, Requirement 3.

a. Field engineering services will be required for the support of the continuing R & D program for System 1, System 3, System 4, and the Data Reduction Equipment. Field tests will be performed to check new modifications and new models of equipment. Some equipments will require field testing before delivery. Suggestions and comments from field units and from the customer will require evaluation under field conditions. Miscellaneous purchased parts, fabricated parts, and certain specialized pieces of test apparatus will be required to perform these evaluations.

b. Engineers and technicians to perform resident field engineering services in support of System 4 will receive in-plant training.

c. Part of the technician time will be paid at a premium rate.

d. Man Months, Engineering:

	<u>Man Months</u>
Field Support	2
Instructors	5
Training	<u>6</u>
Total	13

e. Man Months, Technician:

	<u>Man Months</u>
Field Support	2
Training	<u>16</u>
Total	18

f. Miscellaneous Spare Parts, Test Apparatus, and Training Aids \$1500.00

Item 5. Non-Resident Field Engineering Services, 3-Channel Data Reduction Equipment, Requirement 3.

a. As directed by letter #14007 dated 19 March 1957 from the contracting officer, the installation of the Data Reduction System will be required in approximately eight locations. It is estimated that Requirement 3 resident field engineers can install the Data Reduction Equipment and provide technical support at four locations.

b. The installation, check-out, and instruction of customer personnel will require approximately one and one-half months for each installation. The continued support of each installation is estimated to be two man months per year for the first year. No engineering support is estimated after that time.

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c. Emergency miscellaneous spare parts will be required, estimated to be \$100.00 per installation per year.

d. Man Months, Engineering:

Man Months

3

e. Estimated Travel:

U. S. 3 Trips

f. Emergency Miscellaneous
Spare Parts

\$ 100.00

Item 6. Non-Resident Field Engineering Services, 14-Channel Data
Reduction Equipment, Requirement 3.

a. Installation and continued support of the 14-Channel Data Reduction Equipment will require the services of one engineer at each location for an estimated period of two months. It is estimated the Requirement 3 resident field engineers can provide this service at two locations. Continued effort will be required for the first year for an estimated two and one-half man months per year.

b. Emergency miscellaneous spare parts will be required, estimated to be \$100.00 per installation per year.

c. Man Months, Engineering:

Man Months

2

d. Estimated Travel:

U. S. 2 Trips

e. Emergency Miscellaneous
Spare Parts

\$ 100.00

Item 7. Miscellaneous Support of Field Units, Requirement 1-4/4

a. From time to time, field units require miscellaneous spare parts and apparatus that do not appear on SLOE and FAK lists. These are low-usage, low-cost items. Time delays or the lack of local availability at times provide operational problems of a rather serious nature. It must be recognized that all of the small details and the specialized needs of certain geographic locations will not be taken into account in the FAK and SLOE listings. In most cases it would not be economical to attempt such detailed listings.

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b. The contractor proposes to set up a special fund to honor requests for such parts when received from the Communications Chief, Supply Officer, or other designated authority of any field unit. The cost to the Government shall not exceed \$2,000 per year per location.

c. Estimated Cost for 3 Locations \$3000.00

Item 8. Miscellaneous Support of Field Units, Requirement 2.

a. From time to time, field units require miscellaneous spare parts and apparatus that do not appear on SLOE and FAK lists. These are low-usage, low-cost items. Time delays or the lack of local availability at times provide operational problems of a rather serious nature. It must be recognized that all of the small details and the specialized needs of certain geographic locations will not be taken into account in the FAK and SLOE listings. In most cases it would not be economical to attempt such detailed listings.

b. The contractor proposes to set up a special fund to honor requests for such parts when received from the Communications Chief, Supply Officer, or other designated authority of any field unit. The cost to the Government shall not exceed \$3,000.00 per year per location.

c. Estimated Cost for \$3000.00
2 Fixed Stations

Estimated Cost for \$ 500.00
1 Portable Station

Total \$3500.00

Item 9. Miscellaneous Support of Field Units, Requirement 3.

a. From time to time, field units require miscellaneous spare parts and apparatus that do not appear on SLOE and FAK lists. These are low-usage, low-cost items. Time delays or the lack of local availability at times provide operational problems of a rather serious nature. It must be recognized that all of the small details and the specialized needs of certain geographic locations will not be taken into account in the FAK and SLOE listings. In most cases it would not be economical to attempt such detailed listings.

b. The contractor proposes to set up a special fund to honor requests for such parts when received from the Supply Officer

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or other designated authority of any field unit. The cost to the Government shall not exceed \$2,000 per year per location.

c. Estimated Cost for 2 Locations \$1500.00

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Item 10. Resume for the Total Estimated Time and Charges for
Contract [REDACTED] All Requirements, for the Period of
1 July 1957 to 30 December 1957.

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a. Man Months, Engineering	50
b. Man Months, Technician	36
c. Travel, U. S. - 14 trips	
Foreign - 1 trip	
d. Material	\$13,700.00

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